

## CLAIMS

Claims 1 - 10 (canceled).

11. (original) A method for fabricating mirrored mid-plane spheroidal balls using a plurality of nuggets bonded to a plate, the method comprising the steps of:

- a) bonding a first dielectric plate and a second dielectric plate to both sides of a metallic plate;
- b) cross cutting said first and second dielectric plates to form an array of evenly spaced nuggets on said metallic plate;
- c) heat treating said nuggets to form hemispheres on both sides of said metallic plate;
- d) removing the combination of adjoining hemispheres with sandwiched metallic plate between them to form rotationally free mirrored midplane spheroidal balls.

12. (original) The method of claim 11 wherein immersing the nuggets in a hot liquid is the heat treatment.

13. (original) The method of claim 11 wherein said first dielectric plate and said second dielectric plate are transparent.

14. (original) The method of claim 11 wherein said first dielectric plate is transparent and second dielectric plate is opaque.

15. (original) The method of claim 11 wherein said metallic plate functions both as mirror material and for maintaining tension on the assembly.

Claims 16 - 22 (canceled).

23. (new) The method of claim 11 wherein said balls are micro-mirror cylinders.

24. (new) Apparatus for manufacturing micro-mirror balls comprising:

- a) a sheet of at least one thin metallic plate covered with at least one thin dielectric coating;
- b) said sheet kept under tension;
- c) a tool for cross-cutting said sheet;
- d) a tool for heating said sheet;